



SXN

General

The SXN plug and socket is for use in an explosive atmosphere. It combines in a single unit, the performances of a plug and socket-outlet for industrial purposes with that of an air-break switch. It can make and break under full load in complete safety.

The two auxiliary contacts are used as pilot contacts and interlocks the SXN electrically with a safety relay.

Installation

The SXN must be installed by a competent person.

Assembly

Optimum operating conditions are achieved by installing the plug and socket with the latch on top.

To achieve IP66/67, SXN socket-outlets and inlets must be assembled on a handle or 'e' increased safety box and the colour-coded sealing ring used between the inlet or outlet and its rear accessory. The two protrusions of the ring must be positioned on the latch side.

Wiring screws

The recommended torque for both the main and auxiliary contacts is 1.2Nm with a 5mm flat screwdriver for the main contacts and 3mm for the auxiliary ones.

Wiring

Make sure the power is OFF before starting.



The conductor cross-section is as follows:

Main contacts: 2.5-10sqmm flex.
2.5-16sqmm solid
Aux contacts: 1-2.5sqmm

Insert cable through handle, strip cable to adequate length (20mm for main contacts and 17mm for auxiliary contacts). Insert the conductors fully into their respective terminals and tighten the screws with an appropriate tool. Assemble handle with screws and gasket, and tighten the cable gland. Where the cable could be subjected to excessive strain, an additional strain relief should be applied inside the handle.

Tension cord

The release of the latch is performed by a tension cord. One end of this cord must be attached either to the flexible cable or to a suitable fixed point of the installation. The other end is attached to the latch-release mechanism.

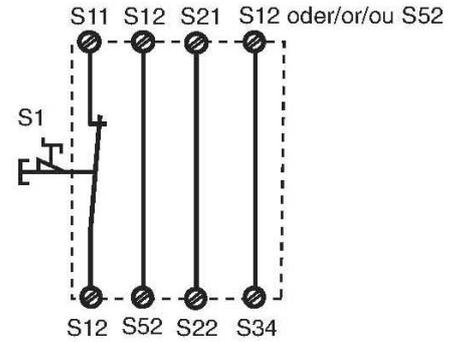
The tension cord must be shorter than the flexible cable.

The eyelet at the end of the handle guides the tension cord in such a way that the tension is applied to the release mechanism with an optimal angle.

A metal collar is supplied with the tension cord, to clamp the loop of the tension cord onto the flexible cable.

Safety relay

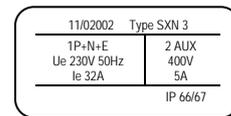
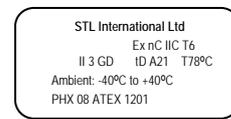
The plug and socket must be electrically interlocked with a safety relay. The auxiliary contacts are wired as an emergency stop switch. The relay can either be mounted in its own 'd' enclosure or placed in the distribution cabinet feeding the application.



S1 represents the Aux contacts.

Operation

To ensure a safe and reliable operation, the SXN must be used as intended and its ATEX ratings must be observed.



Maintenance

Screws should be checked from time to time for tightness. Care should be taken that the weight of the cable is taken by the gland or strain relief arrangement and not by the terminals.

The state of the tension cord, the cable clamp and the free motion of the ejection mechanism should be checked periodically. In the event of serious damage to the contacts, please call your supplier for replacement parts.

